

General Chemistry CHEM 101 Learning Objectives

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1. To become familiar with the scope, methodology, and application of modern chemistry and to learn to appreciate its ability to explain the physical world.
2. To understand that all matter consists of atoms, and that the limitless variety observed around us stems from the ways that these atoms bond with one another.
3. To learn problem solving and learning to interpret the data, to employ valid and efficient methods of analysis, and to assess whether or not the results of calculations are reasonable.
4. To learn the principles of atomic and molecular theory, stoichiometry, and thermodynamics.
5. To generalize the analytical and quantitative skills gained in this course and to apply them in more advanced courses and throughout ones career.

General Chemistry CHEM 101 Learning Outcomes (LO)

1. Be able to know how the atoms are arranged in molecules and ions
2. Be able to name chemical compounds
3. Be able to balance chemical equations and use variety of problems
4. Be able to know properties of solution
5. Be able to know Energy changes with reactions
6. Be able to describe the electronic structure of atoms
7. Be able to know the properties of elements in the periodic table
8. Be able to differentiate between types of bonds
9. Be able to determine 3D shapes of molecules
10. Knowledge of properties and behavior of Gases